

APPENDIX B

16. A method of joining composite parts comprising:
inserting, through the thickness of each said composite part, a plurality of reinforcing elements extending from the joint surface thereof;

selecting an adherent interlayer material for joining said parts;

assembling said composite parts such that said joint surfaces face each other with said adherent interlayer therebetween;

driving said reinforcing elements into said adherent interlayer and curing said adherent interlayer locking said reinforcing elements therein.

17. A method of claim 16 in which said adherent interlayer is a prepreg material and the step of driving said reinforcing elements and curing includes subjecting the assembly to elevated pressure and temperature.

18. A method of joining composite parts comprising:
inserting, through the thickness of one composite part, a plurality of reinforcing elements extending from the joint surface thereof;

selecting an adherent interlayer material for joining said parts;

assembling said composite parts such that said joint surfaces face each other with said adherent interlayer therebetween;

driving said reinforcing elements into said adherent interlayer and curing said adherent interlayer locking said reinforcing elements therein.

20. A method of joining composite parts comprising:

disposing a plurality of reinforcing elements through the thickness of the composite adherends to be joined, at least a number of said reinforcing elements exposed at the joint surface of each said adherent;

assembling said adherends so that the joint surface of one said adherend faces the joint surface of the other said adherend defining a joint region therebetween; and

disposing an adherent within said joint region and about said exposed reinforcing elements and said joint surface.

22. A method of joining a composite part with a non-composite part, comprising:

inserting, through the thickness of said composite part, a plurality of reinforcing elements at least at the joint region thereof, said reinforcing elements exposed at the joint surface of said composite part;

assembling said composite part such that said exposed reinforcing elements are disposed proximate the joint surface of said non-composite part; and

disposing an adherent about said exposed reinforcing elements and said joint surfaces.